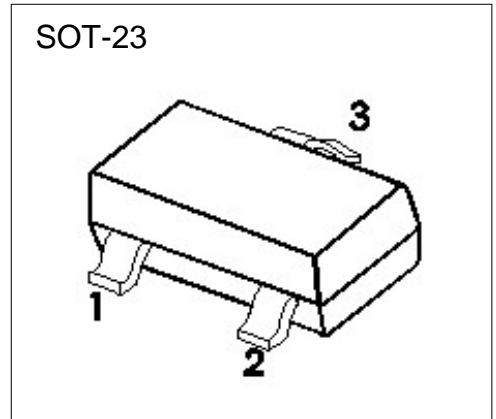


## ■ Features

- High Current Capability
- Low Forward Voltage Drop
- Extremely Fast Switching Speed

## ■ Mechanical Data

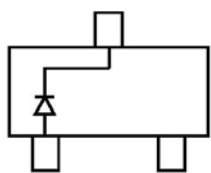
- package:SOT-23
- Flammability rating of epoxy resin: UL 94V-0
- Mounting Position: Any



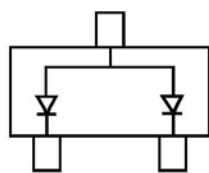
## ■ Ordering Information

Part Number	Package	Marking	Packing	Quantity per reel	Reel Size
BAS40	SOT-23	43	Tape & Reel	3000 PCS	7 inches
BAS40-06	SOT-23	46	Tape & Reel	3000 PCS	7 inches
BAS40-05	SOT-23	45	Tape & Reel	3000 PCS	7 inches
BAS40-04	SOT-23	44	Tape & Reel	3000 PCS	7 inches

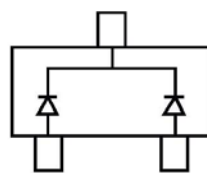
## ■ Pin Configuration



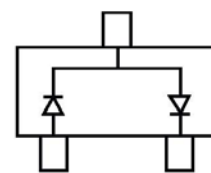
BAS40



BAS40-06



BAS40-05



BAS40-04

**Maximum Ratings & Thermal Characteristics**(Ratings at 25°C ambient temperature unless otherwise specified.)

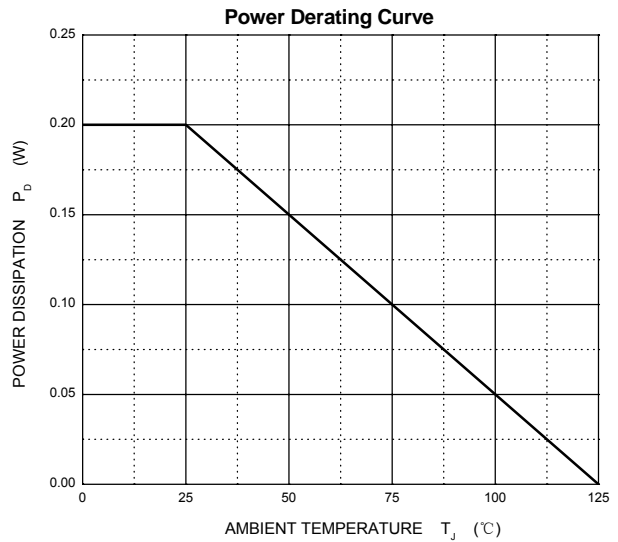
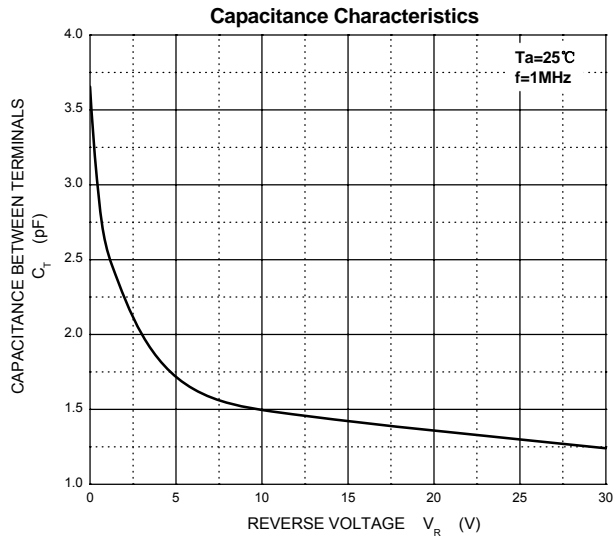
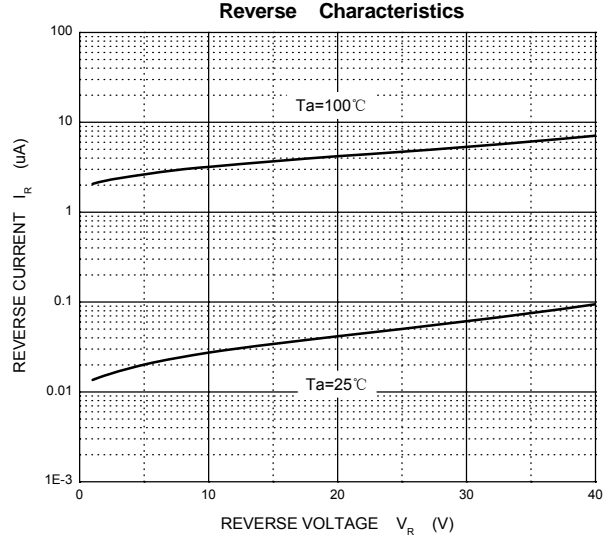
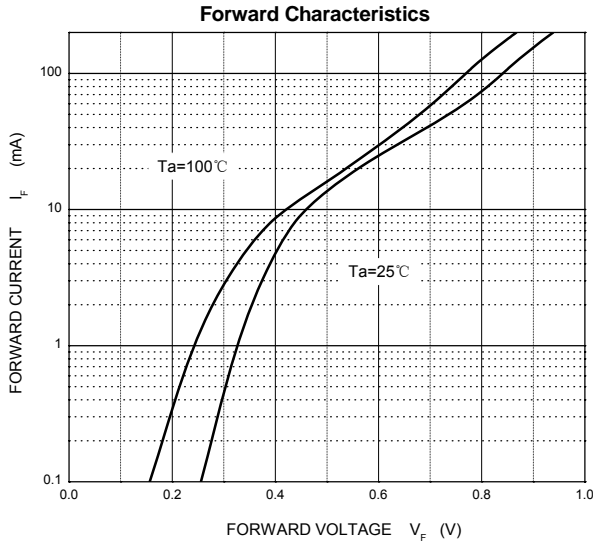
Parameters	Symbol	Limit	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current	IFM	200	mA
Typical thermal resistance	R $\theta$ JA	500	°C/W
Power Dissipation	PD	200	mW
Junction Temperature	Tj	125	°C
Storage temperature range	TSTG	-50-+150	°C

**Electrical Characteristics**(Ratings at 25°C ambient temperature unless otherwise specified)

Parameters	Symbol	Test conditions	Min	Typ	Max	Unit
Maximum forward voltage	VF1	IF = 1mA			380	mV
	VF2	IF = 40mA			1000	
Maximum reverse breakdown voltage	VR	IR=10uA	40			V
Maximum reverse current	IR	VR=30V			200	nA
Type junction capacitance	CD	VR = 0V, f = 1MHz			5	pF
Reverse Recovery time	trr	IF=IR=10mA Irr=1XIR, RL=100Ω			5	ns

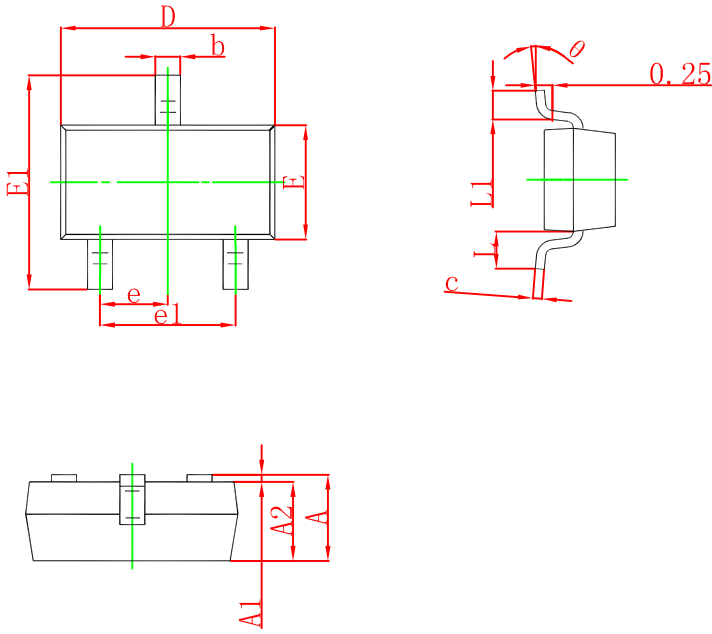


### ■ Typical Characteristics





■ SOT-23 Package Outline Dimensions



Symbol	Dimensions In Millimeters	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950 TYP	
e1	1.800	2.000
L	0.550 REF	
L1	0.300	0.500
$\theta$	0°	8°

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